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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION		
10/550,942	11/23/2005	Chung-hak Lee	110989-0004	4080	
	7590 09/13/201 CMAN HAM & BERN	EXAMINER			
1700 DIAGON SUITE 300		FISHER, MICHAEL J			
ALEXANDRIA	A, VA 22314	ART UNIT	PAPER NUMBER		
			3689		
		MAIL DATE	DELIVERY MODE		
			09/13/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Cumment		Applica	tion No.	Applicant(s)				
		10/550,	942	LEE, CHUNG-HAK				
Office Action Summary			er	Art Unit				
		MICHAE	EL J. FISHER	3689				
Period fo	The MAILING DATE of this communica r Reply	tion appears on t	he cover sheet with the o	correspondence ad	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIN IS IN	LING DATE OF The street of the	FHIS COMMUNICATION event, however, may a reply be ting will expire SIX (6) MONTHS from pplication to become ABANDONE	N. mely filed the mailing date of this of ED (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed	on 6/29/10						
	·)∏ This action is	non-final.					
′=	<i>'</i>			osecution as to the	e merits is			
٥,١	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-32</u> is/are pending in the app 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-32</u> is/are rejected. Claim(s) is/are objected to.	withdrawn from c						
	Claim(s) are subject to restrictio	n and/or election	requirement.					
	on Papers							
-	The specification is objected to by the E		b) □ objected to by the	Evaminar				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the				ED 1 121/d)			
11)	The oath or declaration is objected to by	•		-	, ,			
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment			A) D bakes item 0	(DTO 442)				
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,3,8-11,14,16-19,21-23,25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by US PAT 6,577,946 to Myr.

As to claim 1, Myr discloses a method for obtaining traffic data using billing information of cellphones (user information is billing information), that receives call data (fig 1), extracts unique data (position data, fig 1), the system tracks position and speed (fig 4) and determines average speed (fig 16), the "terminals' are the cell phones and the calls are made on the highway (col 9, lines 13-14).

As to claim 19, the handoff would be to the next receiver.

As to claims 3,23, the terminals have identification numbers (Road Intersection Node, col 7, lines 11-18).

As to claim 8, there is at least one sample object (various "CP"s, as seen in fig 12).

As to claims 9,10,11, tracking lower priority objects is terminated (fig 5), the samples are clustered (fig 11).

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As to claim 14, Myr discloses reference times added to the time (top row in fig 16).

As to claims 16,17,22, the vehicles are not tracked when the signal is not received by one in the system, thereby meeting the limitations as claimed.

As to claim 18, the base stations are for their area, thereby meeting the limitations as claimed.

As to claims 21,25,26, the system would terminate when no signal is received, thereby meeting the limitations as claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2,4,5-7,12,13,15,20,24 and 27-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myr.

As to claims 29, the reference value and time would be a matter of obvious engineering design choice and would not render the instant invention patentably distinct.

As to claims 2, 20, the system is used on highways (col 9, lines 13-14), where they are built would be a matter of obvious engineering design choice and would not render the instant application patentably distinct.

As to claim 4, Myr does not teach the specific time interval, however, it would have been obvious to one of ordinary skill in the art to use 30 second intervals as a matter of obvious, engineering design choice.

As to claim 5, it would be obvious to send a wake-up signal to ensure the system is working properly.

As to claim 6, the data is extracted on a section by section basis and for all sections (fig 12), the number would be a matter of statistical choice and would not render the instant invention patentably distinct.

As to claims 7,27, the number and location of stations would be a matter of obvious, engineering design choice and would not render the instant invention patentably distinct.

As to claims 12,24, Myr does not teach exactly how speed information is determined, however, dividing distance traveled by time unit is how speed is determined

(miles/hour), therefore, it would have been obvious to use this formula as it is old and well known to work.

As to claim 13, Myr does not teach showing the maximum speed when no vehicles are tracked on a road, however, it would be obvious to one of ordinary skill in the art to do so as, without vehicles on the road, there could be no congestion and therefore, any vehicles traveling down a deserted road could go the maximum speed if so desired.

As to claim 28, the base stations are for their area, thereby meeting the limitations as claimed.

As to claims 15 and 29, the reference time would be a matter of obvious engineering design choice and would not render the instant invention patentably distinct.

As to claim 30, the system is used on highways (col 9, lines 13-14).

As to claim 31, the base stations are for their area, thereby meeting the limitations as claimed.

As to claim 32, Myr does not teach the specific time interval, however, it would have been obvious to one of ordinary skill in the art to use 5 minute intervals as a matter of obvious, engineering design choice.

Response to Arguments

Applicant's arguments filed 6/29/10 have been fully considered but they are not persuasive. As to arguments made in relation to "terminals", as the claims, as currently

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amended, appear to claim the terminals moving, a cell phone meets the limitaions as claimed. As applicant notes on the bottom of page 7, the prior art teaches generating traffic data on a highway using phone calls. Having more characteristics does not preclude a rejection under 35 U.S.C. 102 so long as the claimed features are disclosed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL J. FISHER whose telephone number is (571)272-6804. The examiner can normally be reached on Mon.-Fri. 7:30am-5:00pm alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janice Mooneyham can be reached on 571-272-6805. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MF 9/10/10

/Janice A. Mooneyham/ Supervisory Patent Examiner, Art Unit 3689 Application/Control Number: 10/550,942

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